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st96042sqli.ST25
SEQUENCE LISTING

<110> ICARD-LIEPKALNS, Christine
MALLET, Jacques
RAVASSARD, Philippe

<120> POLYPEPTIDES OF THE "BASIC-HELIX-LOOP-HELIX" bHLH FAMILY, CORRESPONDING NUCLEIC ACID SEQUENCES

<130> ST96042AUS

<140> 09/595,947

<141> 2000-06-16

<150> FR96/15651

<151> 1996-12-19

<150> PCT/FR97/02368

<151> 1997-12-19

<150> US09/331,356

<151> 1997-12-19

<160> 28

<170> PatentIn version 3.0

<210> 1

<211> 1460

<212> DNA

<213> Rattus norvegicus

<400> 1

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cgattagcag ctcaagaagtc cctctgggtc tcaccactgc acagaggccg aggacccccct      180
ccgagcttct ttgctgcctc cagacgcaat ttactccagg cgagggcgcc tgcagctcag      240
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gcagctctct gttcttttga gcccgagta actaggtaac atttaggaac ctccaaaggg      360
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gtgtcctgcc caccttcccg gatgacgcca aacttataaa gatcgagacc ctgcgcttcg      840
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tggaggagtt ccctggcctg caggtgcccc gctccccatc ctgtctgctc ccgggcaccc      1080
tgggtgttctc agacttcttg tgaagggccc aaacaggccc tgggcggtgg gcgctggcag      1140
aaagggaggg agtcagagct gtctgaaatg gaaggtagtg gaggcactcg agcatctcgc      1200
cccttctggc tttcattagt caggtccctg atttaaccag gattcgcaca gttccttgct      1260
gctgtgctg cacaaaggac attgcaggct gatctcctct taaccctcct cagtgtggcc      1320
acctcaaact cccgctccaa gcagaggaga gccgtagcac taaatagttg ggagactccc      1380
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Asp Lys Cys Gly Cys Arg Tyr Gly
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 <211> 18
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<220>
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<210> 6
 <211> 6
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<220>
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6

<210> 7
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<220>
 <223> DNA sequence of mutated E box

<400> 7
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<210> 8
 <211> 214
 <212> PRT
 <213> Rattus norvegicus

<400> 8

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Thr Gln Gln Pro Phe Pro Gly Ala Ser Asp His Glu Val Leu Ser Ser
 20 25 30

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 35 40 45

Ala Glu Ala Gly Asp Cys Arg Gly Thr Ser Arg Lys Leu Arg Ala Arg
 50 55 60

Arg Gly Gly Arg Asn Arg Pro Lys Ser Glu Leu Ala Leu Ser Lys Gln
 65 70 75 80

Arg Arg Ser Arg Arg Lys Lys Ala Asn Asp Arg Glu Arg Asn Arg Met
 85 90 95

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His Asn Leu Asn Ser Ala Leu Asp Ala Leu Arg Gly Val Leu Pro Thr
 100 105 110
 Phe Pro Asp Asp Ala Lys Leu Thr Lys Ile Glu Thr Leu Arg Phe Ala
 115 120 125
 His Asn Tyr Ile Trp Ala Leu Thr Gln Thr Leu Arg Ile Ala Asp His
 130 135 140
 Ser Phe Tyr Gly Pro Glu Pro Pro Val Pro Cys Gly Glu Leu Gly Ser
 145 150 155 160
 Pro Gly Gly Gly Ser Ser Gly Asp Trp Gly Ser Ile Tyr Ser Pro Val
 165 170 175
 Ser Gln Ala Gly Ser Leu Ser Pro Thr Ala Ser Leu Glu Glu Phe Pro
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 Gly Leu Gln Val Pro Ser Ser Pro Ser Cys Leu Leu Pro Gly Thr Leu
 195 200 205
 Val Phe Ser Asp Phe Leu
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<210> 9
 <211> 1330
 <212> DNA
 <213> Homo sapiens

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 tgctcatcgc tctctattct tttgcgccg tagaaaggta atatttgag gccttcgagg 180
 gacgggcagg ggaaagagg atcctctgac ccagcggggg ctgggaggat ggctgttttt 240
 gttttttccc acctagctc ggaatcgcg actgcgccgt gacggactca aacttaccct 300
 tccctctgac cccgcgctag gatgacgcct caaccctcgg gtgcgcccac tgtccaagtg 360
 acccgtgaga cggagcggtc cttccccaga gcctcggaag acgaagtgac ctgccccacg 420
 tccgccccgc ccagccccac tcgcacaccg gggaactgcg cagaggcgga agagggaggc 480
 tgccgagggg ccccgaggaa gctccgggca cggcgcgggg gacgcagccg gcctaagagc 540
 gagttggcac tgagcaagca gcgacggagt cggcgaaaga aggccaacga ccgcgagcgc 600
 aatcgaatgc acgacctcaa ctcggcactg gacgccctgc gcggtgtcct gcccaccttc 660
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 gcgctgactc aaacgctgcg catagcggac cacagcttgt acgcgctgga gccgcggcg 780
 ccgcaactgc gggagctggg cagcccaggc ggtccccccg gggactgggg gtccctctac 840
 tccccagtct cccaggctgg cagcctgagt cccgcgcgct cgctggagga gcgacccggg 900
 ctgctggggg ccacctcttc cgctgcttg agcccaggca gtctggcttt ctcagatttt 960

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ttctccctag ctgacccttg gccggccag gcctccacgg gggcggtagg ctgggttcat 1140
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gcattgcaaa gtgcgctcat tttaggcttc ctctctgcca ccacccata atccattca 1260
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ccctcactca 1330

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<210> 10
 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 10

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35        40        45
Ala Glu Glu Gly Gly Cys Arg Gly Ala Pro Arg Lys Leu Arg Ala Arg
50        55        60
Arg Gly Gly Arg Ser Arg Pro Lys Ser Glu Leu Ala Leu Ser Lys Gln
65        70        75        80
Arg Arg Ser Arg Arg Lys Lys Ala Asn Asp Arg Glu Arg Asn Arg Met
85        90        95
His Asp Leu Asn Ser Ala Leu Asp Ala Leu Arg Gly Val Leu Pro Thr
100       105       110
Phe Pro Asp Asp Ala Lys Leu Thr Lys Ile Glu Thr Leu Arg Phe Ala
115      120      125
His Asn Tyr Ile Trp Ala Leu Thr Gln Thr Leu Arg Ile Ala Asp His
130      135      140
Ser Leu Tyr Ala Leu Glu Pro Pro Ala Pro His Cys Gly Glu Leu Gly
145      150      155      160
Ser Pro Gly Gly Pro Pro Gly Asp Trp Gly Ser Leu Tyr Ser Pro Val
165      170      175
Ser Gln Ala Gly Ser Leu Ser Pro Ala Ala Ser Leu Glu Glu Arg Pro
180      185      190
Gly Leu Leu Gly Ala Thr Ser Ser Ala Cys Leu Ser Pro Gly Ser Leu
195      200      205
Ala Phe Ser Asp Phe Leu
210

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<210> 11
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 <212> DNA
 <213> Artificial

<220>
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<400> 11
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<210> 12
 <211> 24
 <212> DNA
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<220>
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<210> 13
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<220>
 <223> primer

<220>
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 <223> n=a or t or g or c

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<210> 16
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<220>
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<400> 17
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<210> 18
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<220>
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19

<210> 19
<211> 50
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<220>
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50

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23

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<400> 23
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22

<210> 24
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<210> 25
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24

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<213> Artificial

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<223> probe

<400> 26

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<210> 27

<211> 1381

<212> RNA

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<223> probe

<400> 27

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uuugaauugg auuaugggu gguggcagag aggaggccua aaugagcgc acuuugcaau 180
gccacuucg cgcgggcagc agcaagguu gcgugcuug gcgcggcucg gagggccggg 240
gaaugaacc agccuaccgc ccccguggag gccugggccg gccagggguc agcuaggag 300
aagcagaagg aacaagugcu uuugagggc gccgccgucg gccaccucu acggcucccg 360
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